TA710.3C35 E6 1964

ENGINEERING OBSERVATION OF FILLING CAMDEN PERCOLATION SYSTEM NEAR CAMDEN AND DELL AVENUE - CAMPBELL, CALIFORNIA

DECEMBER 24, 1964

WOODWARD-CLYDE-SHERARD AND ASSOCIATES

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SAN JOSE, CALIF.
NEW YORK, N. Y.

December 24, 1964

Job No. JF 1231

Santa Clara Valley Water Conservation District
15420 Almaden Road
San Jose 24, California

Gentlemen:

SUBJECT: Engineering Observation of Filling
Camden Percolation System
Near Camden and Dell Avenue
Campbell, California

In accordance with your request, our firm has observed the preparation of the area to receive fill and the placing of fill in the compacted land fill area of the subject site.

Disturbed samples, representative of the materials used for fill were compacted in the laboratory to establish the maximum density, as required in the job specifications. The results of laboratory tests on the fill materials are given in Table 1.

The land fill area was cleared of vegetation and debris. The loose "islands" of material in the north central portion of the fill area were excavated and this material reused for engineered fill. Some large concrete slabs, stumps, and miscellaneous debris were encountered during excavation and removed from the fill area. An existing dumped fill area at the north end of the site was excavated south of Station 41+60±. This station forms the northern boundary of the land fill area as shown on the enclosed site plan, Figure 1. Before placing any fill the area was leveled, watered, and recompacted to the required density.

During the placing of fill, compaction procedures were observed and field density tests taken. The results of the field density tests are given in Table 2 and may be located by means of the grid system on the enclosed site plan, Figure 1. To aid in control of levee fills, density tests were taken when requested by your project engineer. The results of these tests are also shown on Table 2, and are referenced according to station number.

Field observations and the enclosed tests results indicate that the fill in the land fill area has been compacted in accordance with the job specifications. Detailed development of the land has not been determined at this time. For this reason, no investigation has been made of the deposits underlying the fill. The necessity of evaluating these deposits will depend upon the foundation requirements for each proposed structure.

Very truly yours,

WOODWARD-CLYDE-SHERARD AND ASSOCIATES

William D. Johnson

William D. Johnson, R. E. 14199

FH/jh

enc. - Tables 1 & 2
Figure 1

TABLE 1

RESULTS OF LABORATORY COMPACTION TESTS ON FILL MATERIALS

TEST	1	2	3	4	5
MAXIMUM DRY DENSITY, PCF	141	137	132	140	129
OPTIMUM MOISTURE CONTENT, % DRY WEIGHT	7	8	9	7	10

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TABLE 2 - RESULTS OF FIELD DENSITY TESTS

DATE	SAMPLE NUMBER	GRID LOCATION (FIG. 1)	ELEVATION	MOISTURE CONTENT % DRY WT.	DRY DENSITY, PCF	RELATIVE COMPACTION, % OF LABORATORY DENSITY		
9-11-64	1	M-27	214	8	135	(2)	98	
9-14-64	2	N-28	215	9	132	(2)	96	
	3	M-25	215	7	131	(2)	96	
9-15-64	4	O-14	215	8	123	(2)	90*	
9-16-64	5	O-13	215	6	129	(2&3)	96	Retest of 4
9-17-64	6	M-10	215	10	128	(2)	94*	
	7	Q-13	215	8	123	(2&3)	92*	
9-18-64	8	L-16	215	7	133	(2)	97	
	9	P-13	215	7	127	(2&3)	95	Retest of 6&
9-21-64	10	D-2	214	5	135	(1)	96	
	11	H-3	215	4	126	(1)	90	
	12	M-22	216	6	130	(2&3)	97	
	13	N-18	216	7	131	(2&3)	97	
9-22-64	14	N-14	216	9	127	(3)	96	
	15	Q-10	215	7	131	(2)	96	
	16	M-20	217	8	133	(2)	97	
9-23-64	17	J-4	222	7	135	(1)	96	
	18	E-2	223	8	134	(1)	95	
	19	L-9	217	8	130	(2&3)	97	
	20	P-12	217	7	138	(1)	98	
	21	P-12	217	8	134	(1)	95	
	22	P-13	217	7	138	(1)	98	
	23	N-19	218	8	136	(1)	97	
	24	N-19	218	8	136	(1)	97	
	25	M-18	217	5	133	(2&4)	96	
9-24-64	26	Q-16	219	6	130	(2&4)	94*	
	27	Q-16	219	6	139	(4)	99	
	28	Q-16	219	6	132	(2&4)	95	Retest of 26
9-25-64	29	J-3	217	7	133	(4)	95	
	30	D-2	217	6	138	(4)	99	
	31	N-28	218	8	138	(4)	98	

TABLE 2 - RESULTS OF FIELD DENSITY TESTS (CONT.)

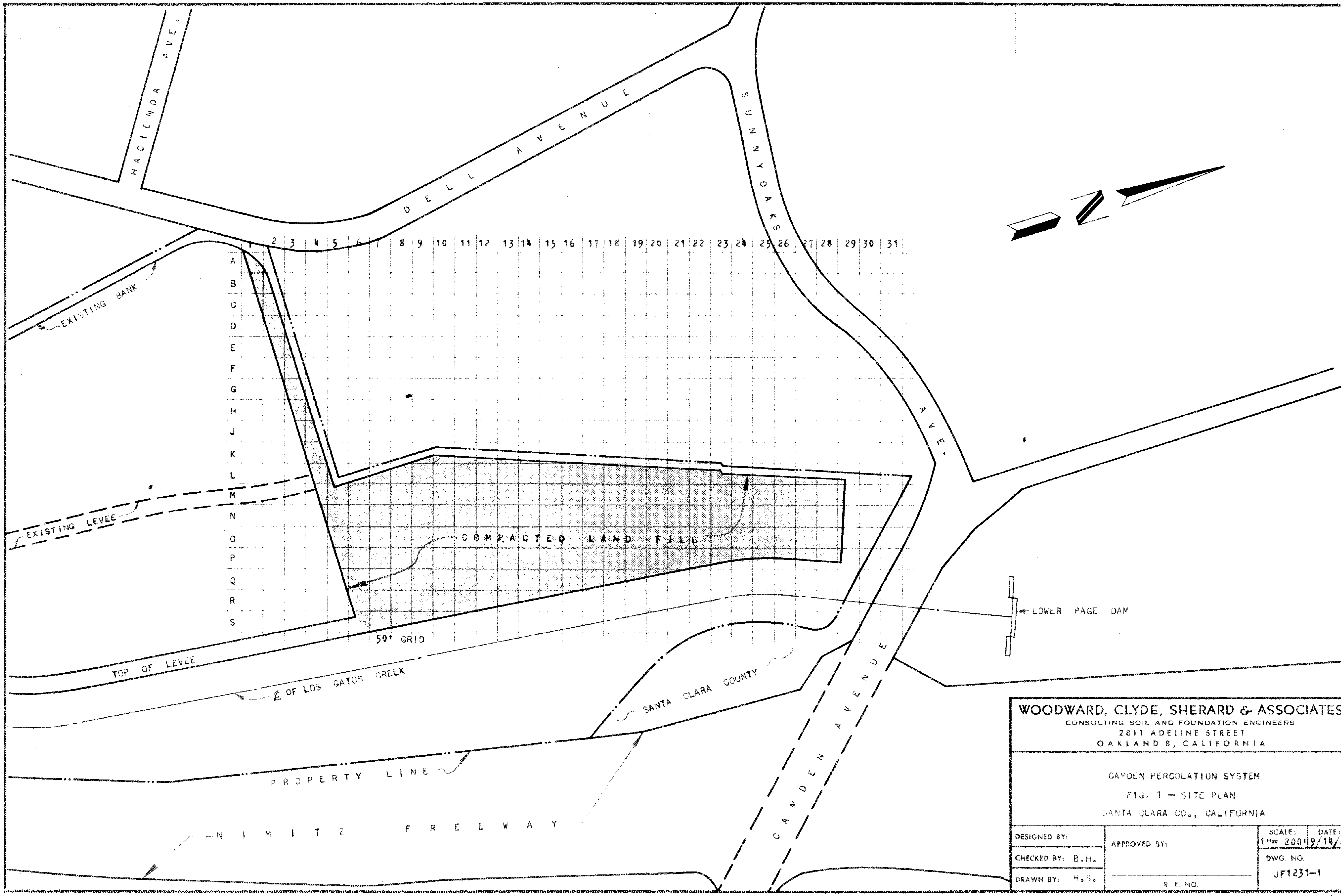
DATE	SAMPLE NUMBER	GRID LOCATION (FIG. 1)	ELEVATION	MOISTURE CONTENT, % DRY WT.	DRY DENSITY, PCF	RELATIVE COMPACTION, % OF LABORATORY DENSITY	
9-29-64	32	K-4	223	6	140	(4)	100
	33	B-1	224	6	131	(4)	94
	34	O-25	220	6	142	(4)	101
	35	P-7	220	7	130	(3&4)	96
	36	A-1	227	6	140	(4)	100
9-30-64	37	O-17	221	6	132	(2&4)	95
	38	M-8	221	6	134	(4)	96
	39	F-3	227	6	129	(4)	92
10-5-64	40	E-3	228	6	134	(4)	96
	41	K-4	228	5	127	(4)	91
10-6-64	42	S-8	223	6	126	(4)	90*
	43	L-27	222	6	130	(4)	93*
10-7-64	44	M-27	222	6	136	(4)	97 Retest of 43
	45	R-9	223	5	133	(4)	95 Retest of 42
10-9-64	46	Levee 10+00		6	144	(4)	103
	47	O-15	224	9	124	(5)	96
	48	O-8	225	8	126	(5)	98
10-12-64	49	N-26	224	8	134	(4)	96
	50	Levee 21+30		8	129	(4)	93
10-15-64	51	S-6	226	10	130	(4&5)	97
	52	P-20	225	7	131	(4&5)	97
10-17-64	53	Levee 18+00		5	139	(4)	99
	54	Levee 12+00		6	136	(4)	97
10-20-64	55	Q-8	227	7	124	(5)	97
	56	N-23	226	5	124	(5)	96
10-22-64	57	L-25	227	8	124	(3&5)	95
	58	L-13	226	8	134	(4)	95
10-27-64	59	Levee 15+00		5	145	(4)	103
	60	Levee 24+00		6	136	(4)	97

TABLE 2 - RESULTS OF FIELD DENSITY TESTS (CONT.)

DATE	SAMPLE NUMBER	GRID LOCATION (FIG. 1)	ELEVATION	MOISTURE CONTENT, % DRY WT.	DRY DENSITY, PCF	RELATIVE COMPACTION, % OF LABORATORY DENSITY
11-4-64	61	L-14	227	10	142	(4) 102
	62	M-15	228	7	130	(4&5) 97
11-5-64	63	O-18	227	8	133	(4) 96
	64	O-17	228	7	124	(3) 94*
11-6-64	65	O-6	227	7	130	(3&4) 95
11-23-64	66	Q-7	228	4	120	(4) 86*
	67	N-5	228	5	128	(4) 91*
11-25-64	68	O-8	228	6	128	(4&5) 95
11-27-64	69	Q-7	228	5	136	(4) 97 Retest of 66
	70	M-4	228	6	128	(4) 91*Retest of 67
	71	M-11	227	5	128	(4) 91*
12-2-64	72	N-16	228	5	141	(4) 100 Retest of 64
	73	N-17	228	5	127	(4) 91*
	74	L-11	227	5	142	(4) 101 Retest of 71
	75	M-26	226	5	140	(4) 100
	76	O-28	225	7	126	(2) 92*
12-3-64	77	O-27	225	6	122	(3) 92*Retest of 76
	78	M-16	228	6	131	(4) 95 Retest of 73
	79	N-5	228	6	142	(4) 101 Retest of 70
12-4-64	80	O-27	225	6	140	(4) 100 Retest of 77
	81	M-28	227	6	138	(4) 99
	82	O-24	227	6	126	(2) 92*
12-7-64	83	O-23	227	7	114	(2) 83*Retest of 82
	84	Q-7	230	6	142	(4) 101
12-8-64	85	O-23	227	7	131	(2) 95 Retest of 82& 83

* Fill Recompacted and Retested

(2) Etc. Indicates Sample Number in Table 1



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OAKLAND 8, CALIFORNIA

CAMDEN PERCOLATION SYSTEM

FIG. 1 – SITE PLAN

SANTA CLARA CO., CALIFORNIA

DESIGNED BY:	APPROVED BY:	SCALE: 1"= 200'	DATE: 9/14/
CHECKED BY: B.H.		DWG. NO.	
DRAWN BY: H.S.	R. E. NO.	JF1231-1	

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JF1231